

**Notice of Allowability**

Application No.

09/552,984

Examiner

Khanh Dinh

Applicant(s)

ALLAVARPU ET AL.

Art Unit

2151

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 7/15/2005.
2. ☒ The allowed claim(s) is/are 1-39.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 2/10/04, 5/3/04, 2/12/02
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

*Khanh Dinh*  
A. U. 2151

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Robert C. Kowert (the Undersigned Attorney, Reg. No.39,255) on 9/27/2005.

The application has been amended as follows:

#### IN THE CLAIMS:

Please **amend** claims as follows:

--1. (Currently amended) A network management system, comprising:

an event gateway which is coupled to one or more managed objects and which is configured to deliver events generated by the one or more managed objects to one or more managers; and

a platform-independent interface to the event gateway, wherein the event gateway is configurable to communicate with the one or more managers through the platform-independent interface to deliver the events generated by the one or more managed objects;

wherein the event gateway comprises a plurality of event distribution server sinks configured to receive events generated by the one or more managed objects and distribute the events to the one or more managers such that one of the one or more

managers receives events from a plurality of different ones of the event distribution server sinks; and

wherein the gateway is configurable to provide the one or more managers with subscriptions to the events as a function of event criteria specified by the one or more managers, ~~whereby~~ wherein events meeting the specified event criteria are delivered and events failing to meet the specified event criteria are filtered out.

2. (Currently amended) The network management system of claim 1, wherein the event criteria comprise an object class for the one or more managed objects generating the events.

3. (Currently amended) The network management system of claim 1, wherein the event criteria comprise an object instance for one of the one or more managed objects generating the events.

4. (Original) The network management system of claim 1, wherein the event criteria comprise an event type.

5. (Currently amended) The network management system of claim 1, wherein the platform-independent interface to the event gateway is expressed in an interface definition language, and wherein the interface definition language comprises a language for defining interfaces to one or more managed objects across a plurality of platforms and across a plurality of programming languages.

6. (Previously presented) The network management system of claim 5, wherein the interface definition language comprises Object Management Group Interface Definition Language (OMG IDL) interface.

7. (Currently amended) The network management system of claim 1, wherein the one or more managed objects comprise one or more objects corresponding to a telephone network.

8. (Currently amended) The network management system of claim 1, wherein the one or more managed objects comprise an object corresponding to a telecommunications device.

9. (Previously presented) The network management system of claim 1, wherein the event gateway comprises:

an event distribution server, wherein the event distribution server is configurable to listen for the events generated by the one or more managed objects and deliver the events to the one or more managers, wherein the event distribution server comprises the plurality of event distribution server sinks.

10. (Previously presented) The network management system of claim 9, wherein the event gateway further comprises:

an event port registry server comprising a plurality of event ports and an event port registry,  
wherein the event port registry server is coupled to the event distribution server,  
wherein the event ports comprise communication channels for the delivery of the events to the one or more managers, and  
wherein the event port registry provides information to the event distribution server regarding which ports correspond to which managers.

11. (Previously presented) The network management system of claim 9, wherein the event distribution server comprises:

an event distribution server source which listens for the events from the one or more managed objects; and  
wherein the plurality of event distribution server sinks are operable to dispatch the events to the one or more managers as a function of the subscriptions.

12. (Previously presented) The network management system of claim 11, wherein the

event distribution server sinks are distributed to provide load balancing of the events to the one or more managers.

13. (Original) The network management system of claim 1, wherein the events are delivered through the platform-independent interface according to Internet Inter-Object Protocol (IIOP).

14. (Previously presented) A network management method comprising:

registering a subscription of a manager application to one or more events generated by one or more managed objects by specifying event criteria to an event gateway, and wherein the event gateway is configurable to communicate with the manager application through a platform-independent interface;

generating a plurality of events including one or more events matching the specified event criteria;

determining whether the specified event criteria are met for each of the plurality of generated events; and

delivering each event for which the specified event criteria are met, wherein events for which the specified event criteria are met are delivered from a plurality of different event distribution server sinks of the event gateway to the manager application.

15. (Currently amended) The network management method of claim 14, wherein the event criteria comprise an object class for the one or more managed objects generating the events.

16. (Currently amended) The network management method of claim 14, wherein the event criteria comprise an object instance for one of the one or more managed objects generating

the events.

17. (Original) The network management method of claim 14, wherein the event criteria comprise an event type.

18. (Original) The network management method of claim 14, wherein the platform-independent interface to the event gateway is expressed in an interface definition language, and wherein the interface definition language comprises a language for defining interfaces to managed objects across a plurality of platforms and across a plurality of programming languages.

19. (Previously presented) The network management method of claim 18, wherein the interface definition language comprises Object Management Group Interface Definition Language (OMG IDL).

20. (Currently amended) The network management method of claim 14, wherein the one or more managed objects comprise one or more objects corresponding to a telephone network.

21. (Currently amended) The network management method of claim 14, wherein the one or more managed objects comprise an object corresponding to a telecommunications device.

22. (Previously presented) The network management method of claim 14, wherein the event gateway comprises:

an event distribution server which is coupled to the event port registry server, wherein the event distribution server is configurable to listen for the events generated by the one or more managed objects and deliver the events to the one or more managers, wherein the event distribution server comprises the plurality of event distribution server sinks.

23. (Previously presented) The network management method of claim 22, wherein the

event gateway further comprises:

an event port registry server comprising a plurality of event ports and an event port registry;

wherein the event port registry server is coupled to the event distribution server,

wherein the event ports comprise communication channels for the delivery of the events to the one or more managers, and

wherein the event port registry provides information to the event distribution server regarding which ports correspond to which managers.

24. (Currently amended) The network management method of claim 22, wherein the event distribution server comprises:

an event distribution server source which listens for the events from one or more managed objects; and

wherein the plurality of event distribution server sinks are operable to dispatch the events to the one or more managers as a function of the subscriptions.

25. (Previously presented) The network management method of claim 24, wherein the event distribution server sinks are distributed to provide load balancing of the events to the one or more managers.

26. (Original) The network management method of claim 14, wherein the events are delivered through the platform-independent interface according to Internet Inter-Object Protocol (IIOP).

27. (Currently amended) A ~~carrier~~ tangible, computer accessible medium, comprising program instructions for network management, wherein the program instructions are computer-executable to perform:

registering a subscription of a manager application to one or more events generated by one or more managed objects by specifying event criteria to an event gateway, and wherein the event gateway is configurable to communicate with the manager application through a platform-independent interface;

generating a plurality of events including one or more events matching the specified event criteria;

determining whether the specified event criteria are met for each of the plurality of generated events; and

delivering each event for which the specified event criteria are met, wherein events for which the specified event criteria are met are delivered from a plurality of different event distribution server sinks of the event gateway to the manager application.

28. (Currently amended) The ~~carrier~~ tangible, computer accessible medium of claim 27, wherein the event criteria comprise an object class for the one or more managed objects generating the events.

29. (Currently amended) The ~~carrier~~ tangible, computer accessible medium of claim 27, wherein the event criteria comprise an object instance for one of the one or more managed objects generating the events.

30. (Currently amended) The ~~carrier~~ tangible, computer accessible medium of claim 27, wherein the event criteria comprise an event type.



31. (Currently amended) The ~~earlier~~ tangible, computer accessible medium of claim 27, wherein the platform-independent interface to the event gateway is expressed in an interface definition language, and wherein the interface definition language comprises a language for defining interfaces to managed objects across a plurality of platforms and across a plurality of programming languages.

32. (Currently amended) The ~~earlier~~ tangible, computer accessible medium of claim 31, wherein the interface definition language comprises Object Management Group Interface Definition Language (OMG IDL).

33. (Currently amended) The ~~earlier~~ tangible, computer accessible medium of claim 27, wherein the one or more managed objects comprise one or more objects corresponding to a telephone network.

34. (Currently amended) The ~~earlier~~ tangible, computer accessible medium of claim 27, wherein the one or more managed objects comprise an object corresponding to a telecommunications device.

35. (Currently amended) The ~~earlier~~ tangible, computer accessible medium of claim 27, wherein the event gateway comprises:

an event distribution server which is coupled to the event port registry server, wherein the event distribution server is configurable to listen for the events generated by the one or more managed objects and deliver the events to the one or more managers, wherein the event distribution server comprises the plurality of event distribution server sinks.

36. (Currently amended) The ~~earlier~~ tangible, computer accessible medium of claim 35, wherein the event gateway further comprises:

an event port registry server comprising a plurality of event ports and an event port registry;

wherein the event port registry server is coupled to the event distribution server,

wherein the event ports comprise communication channels for the delivery of the events to the one or more managers, and

wherein the event port registry provides information to the event distribution server regarding which ports correspond to which managers.

37. (Currently amended) The ~~earlier~~ tangible, computer accessible medium of claim 35, wherein the event distribution server comprises:

an event distribution server source which listens for the events from one or more managed objects; and

wherein the plurality of event distribution server sinks are operable to dispatch the events to the one or more managers as a function of the subscriptions.

38. (Currently amended) The ~~earlier~~ tangible, computer accessible medium of claim 37, wherein the event distribution server sinks are distributed to provide load balancing of the events to the one or more managers.

39. (Currently amended) The ~~earlier~~ tangible, computer accessible medium of claim 27, wherein the events are delivered through the platform-independent interface according to Internet Inter-Object Protocol (IIOP).--

***Allowable Subject Matter***

2. Claims 1-39 are allowed.

***Reason for allowance***

3. This communication warrants no examiner's reason for allowance, as applicant's reply makes evident the reason for allowance, satisfying the record as whole as required by rule 37 CFR 1.104(e). In this case, the substance of applicant's Appeal Brief filed on 7/13/2005 with respect to the claims are patentable over the prior art of record. Thus, the reason for allowance is in all probability evident from the record and no statement for examiner's reason for allowance is necessary (see MPEP 13202.14).

**Conclusion**

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh Dinh whose telephone number is (571) 272-3936. The examiner can normally be reached on Monday through Friday from 8:00 A.m. to 5:00 P.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zarni Maung, can be reached on (571) 272-3939. The fax phone number for this group is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



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9/29/2005